Project:
Investigate a Relational Database

SEARCH

RESOURCES ▲

CONCEPTS ▼

✓ 9. Practice Solution #1

✓ 10. Practice Quiz #2

✓ 11. Practice Solution #2

✓ 12. Workspace + Question Set #1

● 13. Workspace + Question Set #2

✓ 14. Project Submission

✓ 15. Common Mistakes

✓ 16. Helpful strategies

✓ 17. BONUS: Project FAQs

★ 18. Project: Investigate a Relation...

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☰   Common Mistakes

Aggregations

Be careful with Aggregations! You need to include all of the columns you are retur
aggregation in your group by statement.

Correct:

```
SELECT film_id, count(*)
FROM inventory
GROUP BY film_id
```

- This returns 958 rows, with the film_id and the number of inventory associat

Incorrect:

```
SELECT count(film_id)
FROM inventory
```

- This returns 1 row, with the count of film_id in the table.

If a column in the select statement is not in the Group By statement your results v
are not expecting. Please be careful of this!

Subqueries

Subqueries are awesome but you should not use one if you do not need it to ansv
asked. Many times the first question that is thought of does not require one. You
a few more to find a complex question that necessitates a subquery.

**Think of using a subquery when a SQL query is nested within another query
further restrict the returned data, so give careful thought to where.**

Window Functions

Window Functions are extremely **useful for creating an aggregation or doing a
across a subset of rows.** Once you have completed the calculation across the su
then reference the calculation as a new column in the query. You are required to
function in your query for this project.

Think about when you need to aggregate across a subset of rows within a larger o
from a query.

Joins

Joins in general should be from a Primary Key to its corresponding Foreign Key.

Correct: `ON inventory.inventory_id = rental.inventory_id`

- Here, Inventory PrimaryKey = Inventory ForeignKey

Incorrect: `ON inventory.inventory_id = rental.rental_id`

- Here, Inventory PrimaryKey does not equal Rental PrimaryKey

Understanding the data